

Curriculum Vitae - Matthew Peter Wells

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Matthew is an experienced object-oriented software architect and solution designer and works as an independent consultant specialising in Java technologies. He works hard to maintain his skills base at the cutting edge of software technology in order to maintain his reputation as an innovative thinker and incisive problem solver, delivering creativity, clarity and quality to his clients.

Current Enthusiasms

Web 2.0 Concepts, SOA, RIA, J2EE, AJAX, refactoring, test-driven development, patterns, XML, use of metadata to achieve flexible software solutions, lightweight methodologies (XP).

Professional Qualifications

SCEA - Sun Certified Enterprise Architect for Java EE 5 – Jul 2009

SCJP - Sun Certified Programmer for Java 2 Platform – Jan 2002

MA (Cantab.) - Christ's College, Cambridge – 1994

BA (Cantab.) - Christ's College, Cambridge – 1989 - Electrical and Information Sciences (Hons - 2:1)

Primary Skills

Strong skills applicable across the full object-oriented software lifecycle including requirements capture, analysis, design, implementation and test. These skills are based on extensive experience in a wide variety of object-oriented software development and integration projects ranging from fully distributed enterprise software architectures to real-time embedded systems.

- Enterprise application development and integration – J2EE/Java EE (5 years), Web Services, SOA, EJB, JPA, XML, Oracle ADF, JSF, JSP, servlets, Struts, JMS, JMX.
- Object-oriented software development – Java (10 years), C++ (4 years).
- Object-oriented analysis and design – UML, patterns, RUP.
- Leadership, coaching and mentoring.
- Excellent interpersonal and presentation skills developed through client contact.

Supporting Skills

A broad base of supporting skills, including:

- Database (Oracle, SQL, JDBC)
- Distributed middleware (SOAP, JAX-RPC, RMI, CORBA)
- Web technologies (HTML, XML, CSS, Javascript)
- XML technologies (XSD, XSLT, JAXB)
- OS (Windows, UNIX, Linux)
- CASE tools (Enterprise Architect, JDeveloper, Rational Rose)
- Configuration control (Subversion, Clearcase, Sourcesafe, Perforce, PVCS)

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Professional Training

Oracle 2006 – **OracleAS 10g Build Web Services** (2 days)

Oracle 2004 – **OracleAS 10g Building J2EE Applications** (5 days)

Blueprint Technologies 2000 – **Component-Oriented Software Engineering** (1 day)

Object Partners 2000 – **O-O Project Management** (2 days)

QA Training 1997 – **O-O Analysis & Design using the UML** (5 days)

Secondary Education

GCE A-Level (4) - Maths (A), Physics (A-Merit), Chemistry (B), Further Maths (C).

GCE O-Level (11 at Grade A)

Career History

Feb '08 – Present. **Freelance Consultant.** Natural Objects Ltd.

Working with a number of clients to deliver software solutions that meet their needs and those of their customers:

- Aviva plc
- Cedar HR Software Ltd
- Grant Instruments (Cambridge) Ltd
- Smart421 Ltd

Jun '04 – Jan '08. **Java Enterprise Architect.** Cedar HR Software Ltd.

Led the company's expansion from traditional Oracle forms development into Java Enterprise technologies (Java EE, Web Services, EJB3, XML, JMS, JSF, Struts, JSP, Oracle ADF, Oracle Portal, OracleAS 10g).

Consulted with NCALT (National Centre for Applied Learning Technologies) on integrating their Managed Learning Environment (MLE) with Cedar HR's Resource Management System applying SOA best practices.

Led design and development of a metadata-driven, XML-based Data Exchange Framework using EJB3, JMS, Web Services and JMX exposing configurable XML data sets to 3rd party systems via Web Services.

Led design and development of new Self Service HR web application from proof of concept to commercial deployment across a significant number of the UK's police forces. Re-architected legacy J2EE web applications from Oracle UIX/Struts to Oracle ADF Faces (JSF – Trinidad).

Aug '00 – Apr '04. **Chief System Architect.** Radiant Networks, Cambs.

Chief System Architect responsible for system design of Radiant's MeshWorks™ product. Special responsibility for all aspects of software architecture. Pioneered the re-architecting of the Management software for scalability onto the J2EE platform. Previously Lead developer for Network Planning and Management Systems (Java, RMI, CORBA, Oracle) for Radiant's innovative mesh technology. Promoted modular design, code reuse, refactoring and unit testing.

Nov '99 - Aug '00. **Senior Member Technical Staff.** Hughes Network Systems.
11717 Exploration Lane, Germantown, MD 20876, U.S.A.

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Requirements capture, analysis and design (UML, RUP) at system & subsystem level of the Network Operational Control Center for the Spaceway™ broadband satellite data communications network. Senior design role for the Satellite Terminal Element Management Subsystem (Java, Oracle, CORBA, Solaris).

Promoted best practice in object-oriented analysis and design techniques at the system level.

Nov '98 - Oct '99. **Consultant.** The Technology Partnership (TTP).
Melbourn Science Park, Royston, Herts.

Clean sheet design (UML) of Ace™, a distributed software system to support the design and execution of automated chemistry processes to aid drug discovery in the pharmaceutical industry. Successfully managed delivery of first milestone to multinational client.

April '96 - Oct '98. **Senior Software Engineer.** Ionica. Cambridge.
Software Team Leader and Project Design Authority for the AirSide Element Manager (ASEM) embedded application (C++, VRTX). Represented Ionica's interests within the change management forum necessary to control the joint development of the FRA technology between Ionica and Nortel (Proximity I).

May '94 - March '96. **Design Engineer.** Psilogic Ltd. Bracknell.
Design Engineer in a small electronics design consultancy specialising in advanced computer solutions.

Sept. '92 - Apr. '94. **Engineer.** Joint Medical Store. Kampala, Uganda.
Responsible for design and implementation of an invoicing and stock control system at the national central drug store. Positioned via Church Mission Society. London.

Oct. '89 - Aug. '92. **HPTO.** SERC. Daresbury Laboratory. Warrington.
Higher Professional Technology Officer responsible for design, commissioning and implementation of electronic instrumentation solutions in the field of high speed X-ray imaging. Extensive IEE approved training across all departments.

Personal Details

Date of Birth: 12th April 1967
Nationality: British
Marital Status: Married, 2 daughters
Driving Licence: Full and current

Other Activities and Responsibilities

FA Level 1 Football Coach – Bottisham U12 Girls. 2006-2008
Leader - Tear Fund Task Force Team, Tanzania, 1991
Leader - Tear Fund Task Force Team, Bolivia, 1990
Leader - Tear Fund Task Force Team, Kenya, 1989
Deputy Leader - Sinai Coastal Reef Survey, 1988